INSTALLATION, OPERATION AND MAINTENANCE GUIDE
AIR BREATHERS VC SERIES

STORAGE AND SHELF LIFE
Handle with care. Max storage period before putting the instrument into service is 5 years (standard ambient conditions temperature -20 to +40 °C – air humidity 75 %) as long as the instrument is kept in its envelope and in a clean place. Before use, visual check that no damages happened to any parts.

UNPACKING
Unpack breather from its box, pull it out from the plastic bag and remove the plastic plug that close the flange hole (pos. A).
Make a correct disposal of packaging according to local environment regulations.

MOUNTING POSITION
The breather is mounted on the end of the connecting pipe coming from top of conservator.
If breather has threaded connection (tap connection) then sealing taper (Teflon taper) has to be mounted on end of pipe and the breather can be screwed in on pipe.
For models VE 50 to 150 assemble 1 ½" flange adaptor between breather flange and pipe as per mounting sketch.
If breather has flanged connection then are required 4 hex screws M16x30 plus relative washer, nuts and flange gasket made in NBR (fittings and flange gasket if not ordered are not supplied) and the breather can be easily mounted on pipe.

SETTING TO WORK
Once the breather is mounted on pipe the following operation have to be performed:
- Fill the breather with a charge of silicagel
  To do this operate following steps
  - Unscrew the wing nuts (C) that connects upper flange to breather
  - Pour in the charge of silicagel
  - Reassemble the breather by means the wing nut (C)
The breather is now ready to work.

MAINTENANCE
During transformer maintenance is a good practice to check condition of breather.
First of all clean outside surfaces and perform following visual tests:
- Integrity of breather
  Breather should not have visible external damages
- Saturation of silicagel
  Check colour of silicagel through inspection windows: if colour has changed from orange to white you have to change the silicagel: to do so read the following paragraph

CHANGE CHARGE OF SILICAGEL
If the charge of silicagel have to be changed, operate in this way:
- Remove the oil guard protection together with oil cup by unscrewing the knurled ferrule (D) that hold protection of oil guard on bottom flange
- Unscrew the wing nuts (C) that connect upper flange to breather
- Remove the exhaust silicagel by overturn the silicagel
- Pour in the fresh charge of silicagel
- Reassemble the breather by means the wing nut (C)
Saturated silicagel can be regenerated or disposed; in this case of disposition operate according to local environmental rules.
Drawing shows
Breather VC100 model

Tap connection
To Conservator
Threaded tube

1 1/2 Flange Adaptor

Plange connection
To Conservator

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<table>
<thead>
<tr>
<th>Pos</th>
<th>Descrizione/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Top cap</td>
</tr>
<tr>
<td>2</td>
<td>Stainless steel housing</td>
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<tr>
<td>3</td>
<td>Gel container (transparent)</td>
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<tr>
<td>4</td>
<td>Bottom cap</td>
</tr>
<tr>
<td>5</td>
<td>Mechanical valve</td>
</tr>
<tr>
<td>6</td>
<td>Air intake</td>
</tr>
<tr>
<td>7</td>
<td>Data plate</td>
</tr>
<tr>
<td>8</td>
<td>Frame (VC100/150)</td>
</tr>
</tbody>
</table>

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TITOLI E IDENTIFICAZIONE

Titolo: Breather mounting sketch

Data: 10/03/11
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